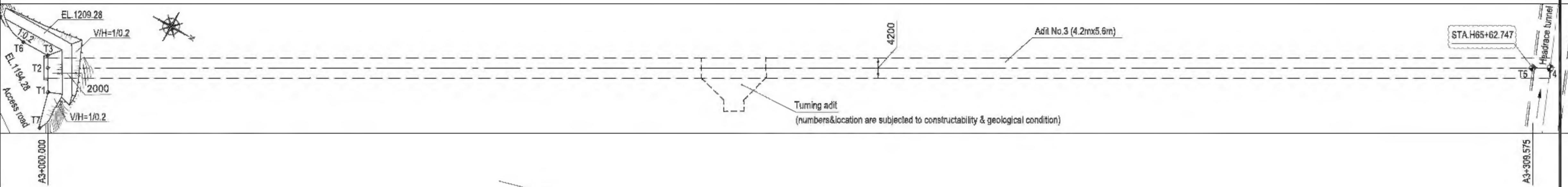


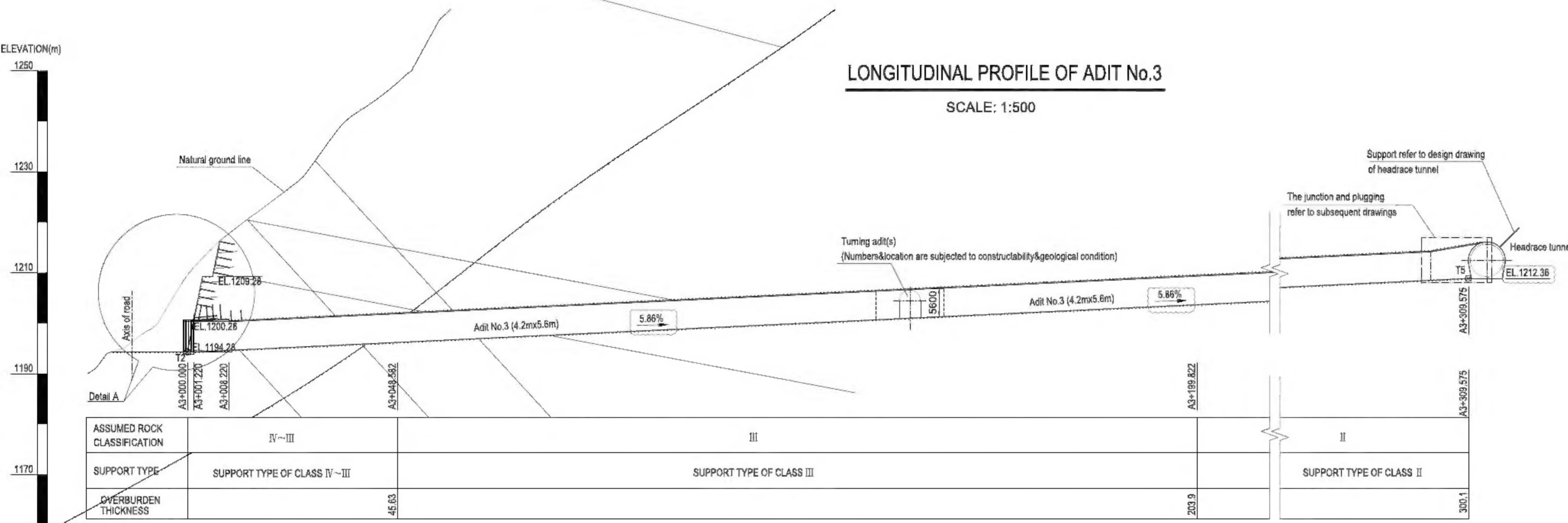
GENERAL PLAN LAYOUT OF ADIT NO.3

SCALE: 1:500



LONGITUDINAL PROFILE OF ADIT No.3

SCALE: 1:500



JOINT SETS OF ADIT NO.3

ID	
1	J15 280°:60°
2	J16 40°:28°
3	Foliation 290°~340°;L15°~30°

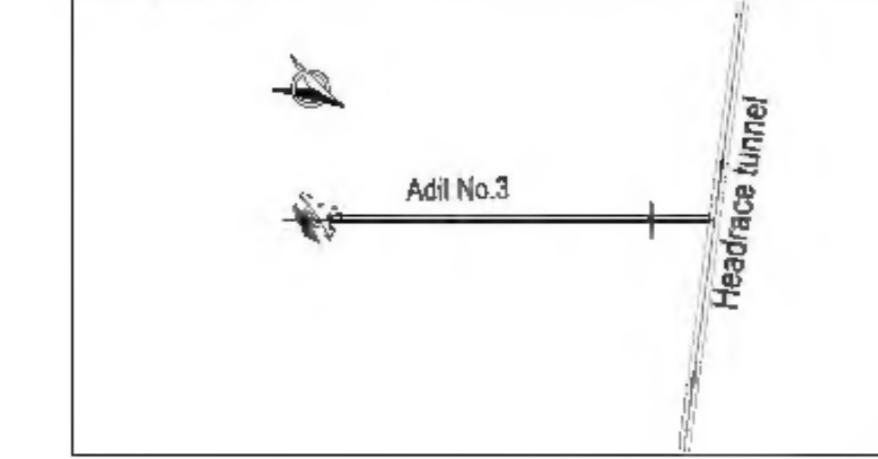
Legend

- Gneiss
- Interbedded Mica Schist and Quartz-Schist.
- Inferred boundary between moderately weathered and slight weathered
- Inferred lithology boundary
- Joint number and attitude (Dip direction/DIP)

Control points

No.	Coordinates(m)		EL.(m)
	N(m)	E(m)	
T1	3108929.536	622312.608	1194.28
T2	3108927.093	622308.124	1194.28
T3	3108925.844	622305.840	1194.28
T4	3109203.146	622160.038	1213.36
T5	3109199.899	622161.779	1213.36
T6	3108920.051	622305.778	1194.28
T7	3108931.518	622319.961	1194.28

KEY PLAN



NOTE

- This set of drawings are excavation and initial support of No.3 adit.
- All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.
- The designer shall provide alternatives and options in the tunnel support design, so that the support can be adjusted in case geological conditions are varying.
- The end position of the adit No.3 may be adjusted according to the final design of the headrace tunnel.
- These rock classes and length estimates in drawings are purely speculative, and all rock classes may be encountered.

Scale:

1:500 0 5 10 15 20 25m

REFERENCE DRAWINGS

UTI-C-150-CVL-DG-43002	Surrounding Rock Stability Calculation of Adit No.3
UTI-C-000-CVL-DG-40001-01-05	Detailed Design Drawing of Excavation and Support for Underground Canals
UTI-C-045-CVL-DG-70005	Layout Drawing of Monitoring for Adit No.3

SYMBOL AND LEGEND

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPR.
E	21.JUN.2022	FOR APPROVAL	DONG Z.Z.	Lei Y.G.	Hen J.B.
D	10.JUL.2021	FOR APPROVAL	DONG Z.Z.	Lei Y.G.	Hen J.B.
C	10.SEP.2021	FOR APPROVAL	DONG Z.Z.	Lei Y.G.	Hen J.B.
B	25.JUL.2021	FOR APPROVAL	DONG Z.Z.	Lei Y.G.	Hen J.B.
A	25.MAY.2021	FOR APPROVAL	DONG Z.Z.	Lei Y.G.	Hen J.B.

PROJECT TITLE
Upper Trishuli-1 HEP (216MW)



OWNER



OWNER'S ENGINEER



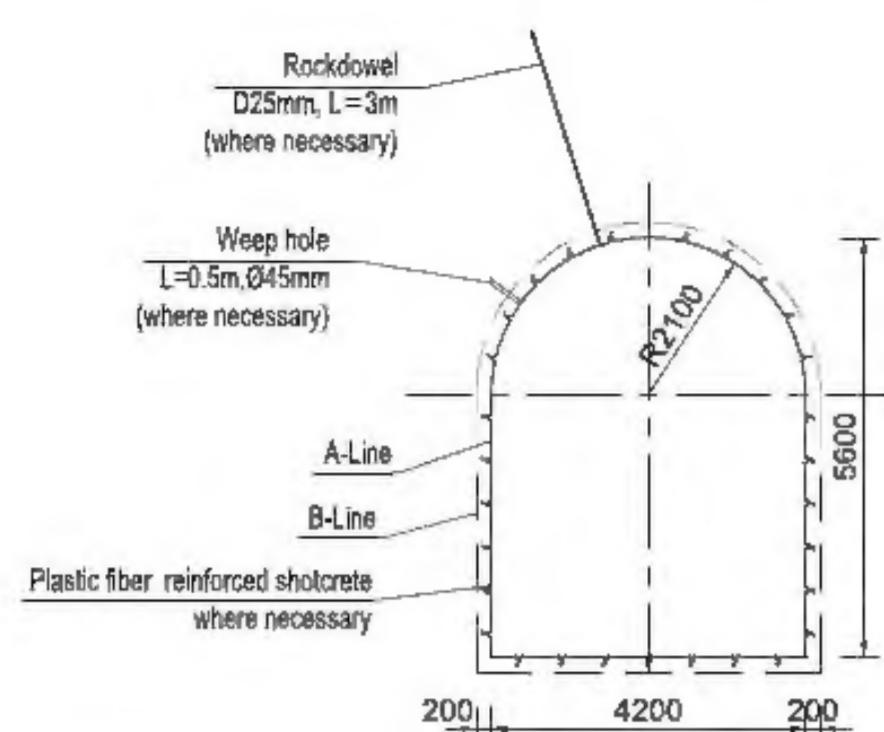
CONTRACTOR
DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE
EXCAVATION AND INITIAL SUPPORT DRAWINGS
OF ADIT NO.3 (1/4)

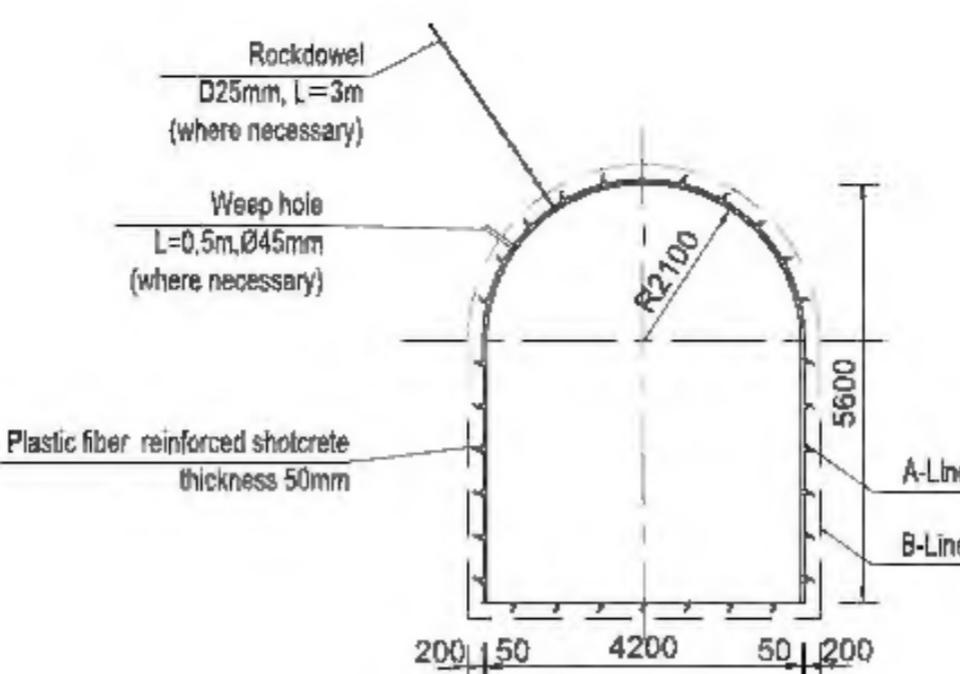
INDEX DRAWING NUMBER SHEET NO. REV. NO.
A UTI-C-150-CVL-DG-43004 1 OF 4 E

SUPPORT TYPE OF ROCK CLASS I

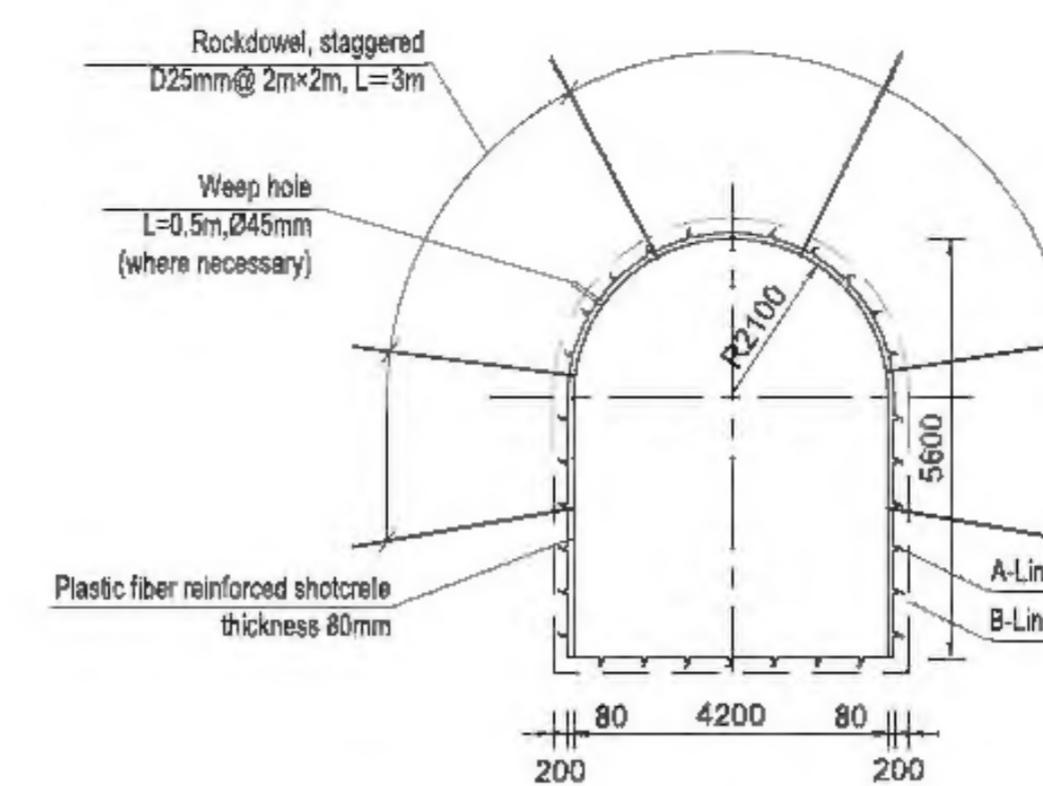
SCALE 1:100

**SUPPORT TYPE OF ROCK CLASS II**

SCALE 1:100

**SUPPORT TYPE OF ROCK CLASS III**

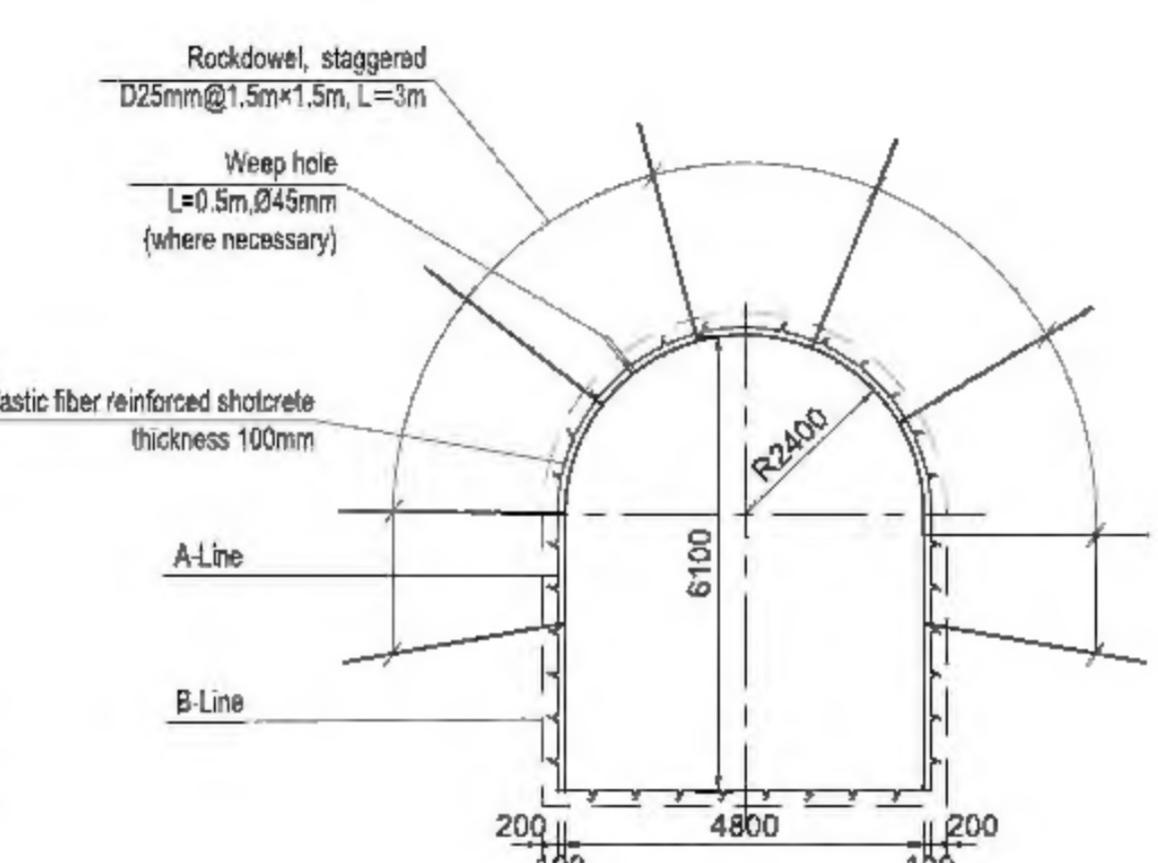
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**NOTE**

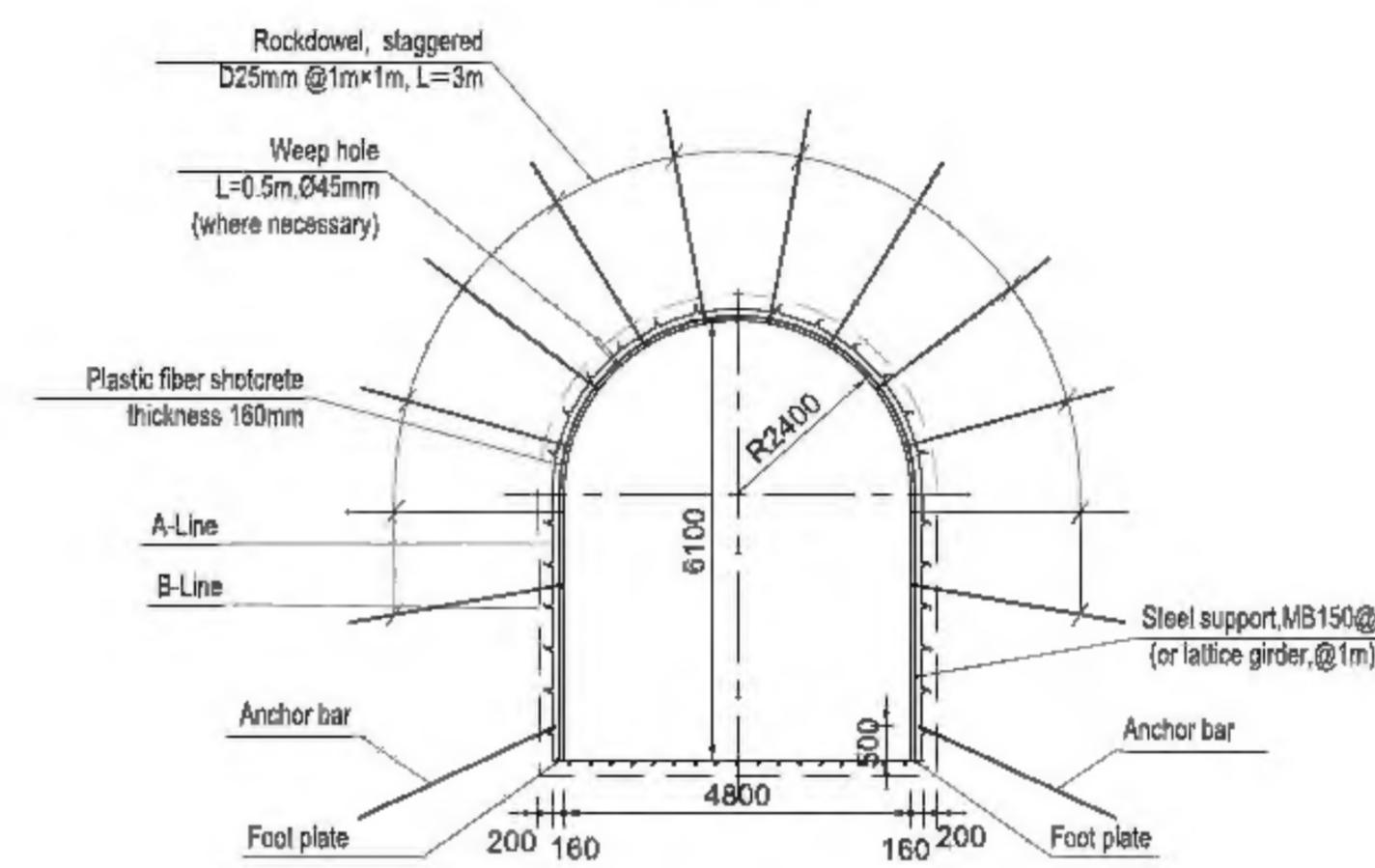
- This set of drawings are the excavation and initial support of adit No.3.
- All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.
- The canopy forepoling is mainly used in the tunnel section with poor surrounding rock geology, which should be used together with dowel and steel support (or lattice girder), and the spacing of dowel should be consistent with that of steel support.
- The steel support (or lattice girder) to rock class IV is subjected to the exposed geological condition.
- The excavation profile may need to be adjusted to a "saw-tooth profile" and size of ribs/girders may also be adjusted.
- Other notes see sheet 1 & sheet 2.

SUPPORT TYPE OF ROCK CLASS IV

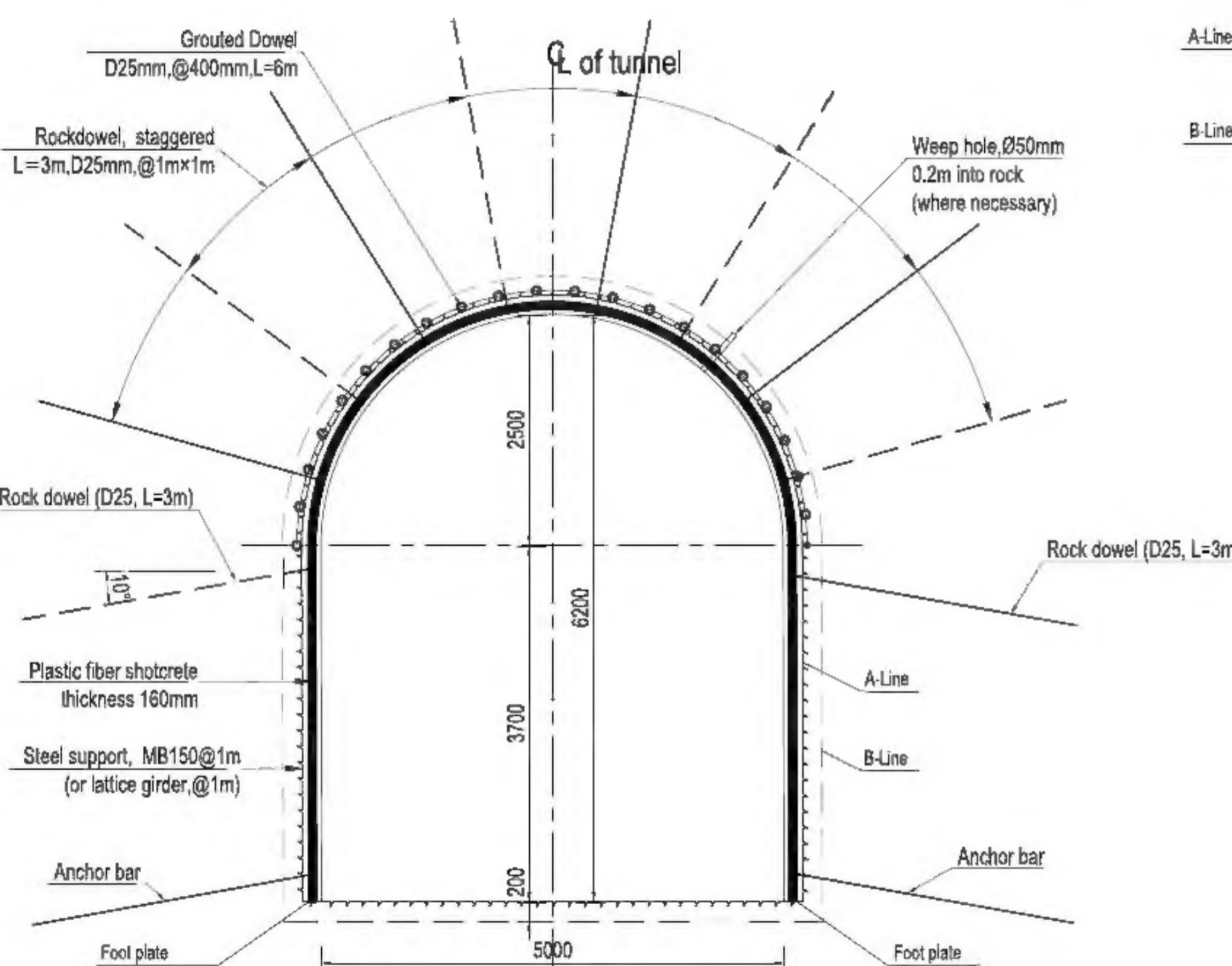
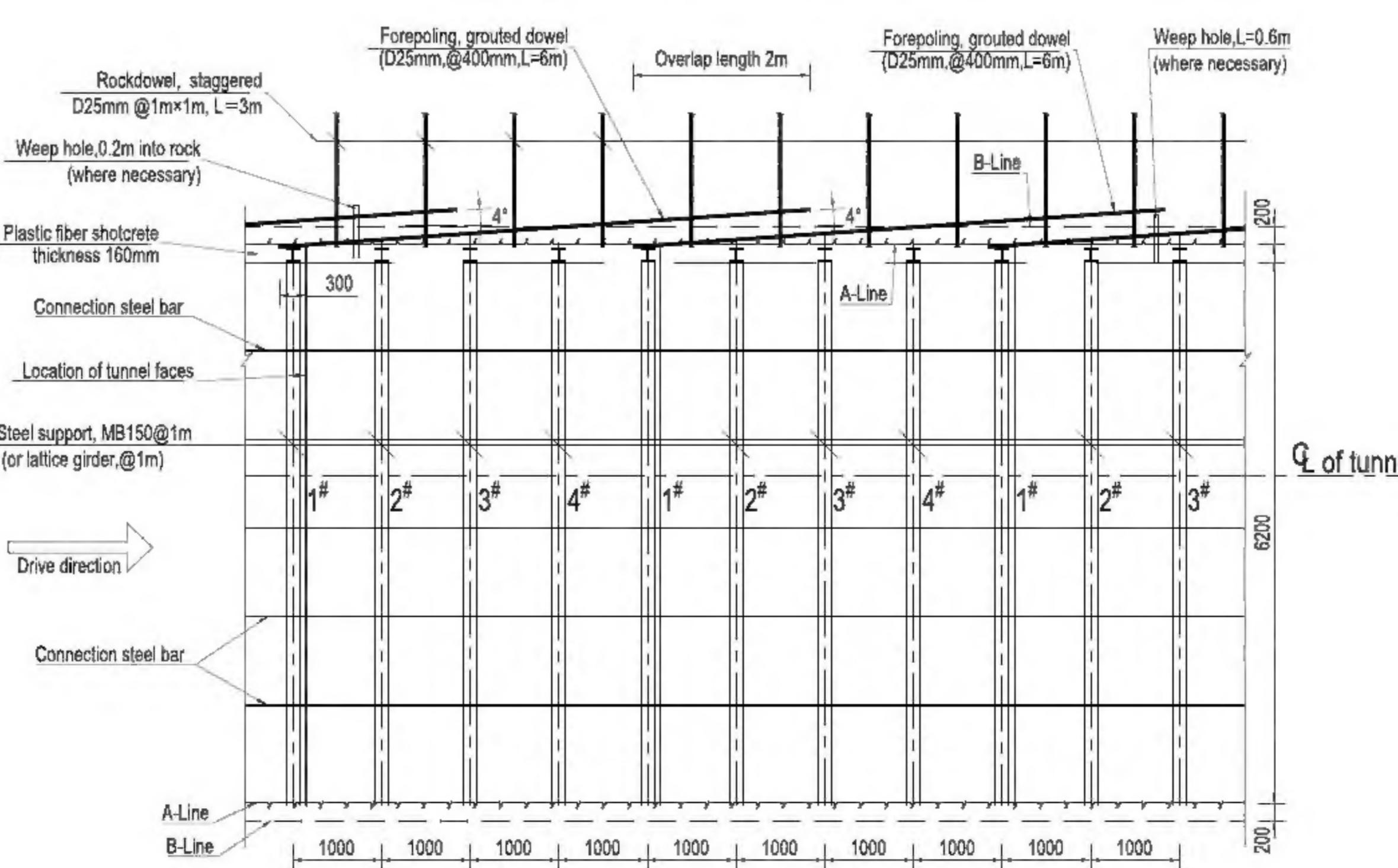
SCALE 1:100

**SUPPORT TYPE OF ROCK CLASS V**

SCALE 1:100

**ACROSS SECTION OF FOREPOLING**

SCALE 1:100

**LONGITUDINAL PROFILE OF FOREPOLING**
Applied to 7m section of portal and class V
SCALE 1:50**REFERENCE DRAWINGS**

UTI-C-150-CVL-DG-43002	Surrounding Rock Stability Calculation of Adit No.3
UTI-C-000-CVL-DG-40001-01-05	Detailed Design Drawing of Excavation and Support for Underground Canoe
UTI-C-645-CVL-DG-79005	Layout Drawing of Monitoring for Adit No.3

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C	10.SEP.2021	FOR APPROVAL	DONG Z.Z. Lei Y.G. Han J.B.
B	25.JUL.2021	FOR APPROVAL	DONG Z.Z. Lei Y.G. Han J.B.
A	25.MAY.2021	FOR APPROVAL	DONG Z.Z. Lei Y.G. Han J.B.
REV. NO.	DATE	DESCRIPTION	DRAWN CHKD. APPD.

PROJECT TITLE
Upper Trishuli-1 HEP (216MW)



OWNER'S ENGINEER
TRACTEBEL ENGINES



CONTRACTOR
DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE
EXCAVATION AND INITIAL SUPPORT DRAWINGS
OF ADIT NO.3 (4/4)

INDEX	DRAWING NUMBER	sheet no	REV. NO.
A	UTI-C-150-CVL-DG-43004	4 OF 4	E